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(FILE USPAT)

SET PAGELENGTH 19 SET LINELENGTH 78

L1 4475 S READ? (P) WRITE? (P) HEAD#

L2 8 S BYPASS? (P) L1

@Ø:12N501 10:20:08
=> set head off
SET COMMAND COMPLETED

U.S. Patent & Trademark Office

PØØ17

=> d 1-8

- 1. 4,942,485, Jul. 17, 1990, Apparatus capable of data reproduction from digital tape cassettes or like storage media employing two different recording methods; Shinji Umehara, et al., 360/46, 67 [IMAGE AVAILABLE]
- 2. 4,769,724, Sep. 6, 1988, Magnetic head drive apparatus which uses a common current source for the read/write head and the erasing head; Masahiro Kusunoki, et al., 360/61, 46, 63, 66, 68
- 3. 4,698,711, Oct. 6, 1987, Simplified, shielded twin-track read/write head structure; Albert W. Vinal, 360/113, 126
- 4. 4,504,880, Mar. 12, 1985, Integrated magnetic recording head assembly
- including an inductive write subassembly and a magnetoresistive read subassembly; Mark A. Church, et al., 360/113
- 5. 4,138,719, Feb. 6, 1979, Automatic writing systems and methods of word processing therefor; H. Wallace Swanstrom, et al., 364/200, 225.6, 225.7, 225.8, 234, 234.2, 235, 235.7, 236, 236.3, 236.4, 236.5, 236.6, 237, 237.2, 237.3, 238.3, 239, 239.3, 239.7, 240.1, 243, 244, 244.1, 244.6, 246, 246.3, 249.8, 252, 259, 259.4, 270, 273 [IMAGE AVAILABLE]
- 6. 3,792,450, Feb. 12, 1974, SYSTEM FOR OVERCOMING FAULTS IN MAGNETIC ANISOTROPIC MATERIAL; Joseph E. Bogar, et al., 365/1, 15
- 7. 3,761,906, Sep. 25, 1973, TAPE SYSTEM; Leslie P. Finster, et al., 360/42; 226/196; 360/51 [IMAGE AVAILABLE]
- 8. 3,688,287, Aug. 29, 1972, COMPUTER MEMORY SYSTEM; Ralph S. Perry, 360/69; 340/683; 360/103

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US PAT NO: 4,742,485 CIMAGE AVAILABLEI

L2: 1 of 3

DETDESC.

METRO(EE)

FIG. 1(A), on the other hand, illustrates how the same data as represented in Fig. 7 is recorded by <u>mates</u> equalization on the magnetic tape 24° of the scornditization of the corresponding data signal operated by the <u>mess</u> assembly 32 on <u>messons</u> the <u>messo</u> equalized

and for male with a respect to moved to on made with that each behand zero bet oul, of the **This** coustinou usta convains both high and low states. hovever, block binary coles are recorded the same way as with NRZI, Mask considered to may be considered a modification of NRZI. The corresponding THE Unique signal of FIG. 8(B) is essentially equivalent to the

UR PAT NO: 4.942,485 DIMAGE AVAILABLEI

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SETDIZAR

differentiation of the 區面面 output signal of FIG. 7(B), for, in FIG. 500), the term trossing points of the waveform correspond to binary ones. This Table Luiput signal needs no differentation. Therefore, as will be inconstant by referring book to FIG. 4, the data signal representative of the recovered make equalized data is directed to the flat amplifier circuit 76 and after to present the differentiating amplifier circuit 92, to the snaping directt 110. In this shaping direct 110 the input signal representative of the **Magaz** equalized data is processed as above described with reference to FIGS. 5 and 6 to provide the same rectangular oulesco o c

UO PAT NO: 4,769,724

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US PAT NO: 4,769,724

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DETL'ESC:

DETRO(13)

The arrangement in FIG. 3 includes smoothing circuit 34 arranged between lenter point 52 of 图画部/图解题 隔距距 8 and terminal 54 of erasing EGGE 18, to suppress a ripple component of the drive current flowing from new E, and adjustable 配配器 circuit 32 provided in parallel with mas 10, in addition to the arrangement in FIG. i.

TETDESCE

DETI (18)

If . . by controller 36. A drive current having a first predetermined

US PAT NO: 4,769,724

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TETD (18)

value is output from constant-current source 38. The current from 整弦/测量限度 配套图 8 is **国际电影** by a current having a value of the second predetermined value. Therefore, a current having a value of the 110-farance between the first and third predetermined values is supplied adross anasing <u>Table</u> 10.

DETIMED.

DETTO (19)

13 combroller Do. A drive current having a biing preceterained valle is gamentied by constant-dubrant source US. A current flowing through FERE/ALTER E IS TWEETED by a connent having a dourth predaterming: value. Therefore, a current having a value of the difference

UN PAT SE: 4.769,754

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The opposition the shields F also greatly reduces the Pringing gradient efficis from the twin-track 配面 during writing which may cause interference in adjacent tracks or purtions of the medium. The primary reason is that the main field generated by the twin-track and/manage The passes through the medium rather shan because the medium as in

US PAT NO: 4,676,711

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DETD (25)

the case for ordinary longitudinal or lateral gap **reco**rding systems. It is the fringe fields in longitudinal recording that ordinarily perform the writing function by design and these. . . have a relatively poor spatial grallent. In contrast, vertical twin track recording systems couple most of the flux from the rese or writing rese pole tips directly into the medium. There is some shielding effect nevertheless and this can be reduced vo levels well. .

US FAT NO: 4,504,380

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SUMMERY:

ESUH(T)

10:12:12

US PAT NO: 4,524,885

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BSUM(7)

ी second problem that is encountered with **peal/क्रेडा क्रिक** assemplies of this type involves the shorting of the two conductors that contact the F1 layer. During fabrication of the. . . sensor and conductors, a shorting condition occurs between the Fi layer and these conductors. Consequently, the MR sensor is electrically impersor by the Fi layer at an overlapping area, so that the device is not operable.

US PAT NO: 4,136,719 CIMAGE AVAILABLE:

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US FAT NO:

3,792,450

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DETDESCH

US FAT NO: 3,792,450

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DETO(7)

The - - but they introduce a generalized defect in the thin magnetic film and illustrate the method by which this defect is a see in the overetion of the Memory. The reference characters in FIGS. 6-11 which refer to the same components remain the. . . generator 45 generates magnetic d kaid é-B

LS FAT NO: 3,792,450

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retting.

. Lus they introduce a generalized defect in the thin magnetic Fill and illustrate the mathod by which this defect is wreat in the operability of the hemory. The reference characters in FIBB, 6-11 which refer is the same components remain the. . . generator 65 generates magnetic buriles and supplies them to a transfer block 71 which is under the control

US PAT NO: 3,792,450

12: 6 cf 8

2ET3(7)

of a Moste control circuit or terminal 67. Those bubbles generated by the generator of which are not transferred to the transfer look. . . block Zi are destroyed in an Enrihllator 66 to which the generator 65 is connected by a magnetic channel f waste combrol circuit 67 is connected to the transper block 71 causing the transfer of bubbles from the generator 65 to the pransfer loop 61. The information contained in the transfer loop 61 can bs read out by means of a read head 74. Although not shown in FIG. 6, the 图画图 图画图 74 is connected to an output or utilization circuit through a terminal 209. An erase control circuit is a or terminal 35 controls the transfer of bubbles from the transfer loop 61 across a transfer block 57 to an. . . a black, or filled-in, circle 82 is shown, it indicates that a bubble is present at that position. A row 😹 📻 📻 34 is adjacent a now marker loop 78 and is controlled by a pulse coupled to an Ingul terminal 65. Likewise, a column Mean 65 is adjacent a

US PAT NO: 3,792,450

L2: 6 or 3

DETDKTI

ctluan loop 79 and is connected to an input terminal 86. The control loop 76 nas a control med bed 75 and a control man 77 adjacent it. Having described the basic organization of the sample memory whip 5%, the method and apparatus for detecting. .

US PAT NO: 5,761,706 CIMAGE AVAILABLEI

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DETDESC

DETD(4)

When . . . tape. But the other motor must drive its respective reel so that the tape which is being fed past the mend and make meads is wound up on the reel. This motor is preferably driven at a faster speed so

US PAT NO: 5,761,708 CIMAGE AVAILABLEI

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DETE (4)

that no slack develops. . . is being rewound by the supply motor, control latches 202 short conductor 207 to ground. The supply motor current thus <u>Present</u> resistor 206 and is of greater magnitude to control the faster operation of the motor. Similarly, conductor 120 is shorted. .

US PAT NOV 5,839,087

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ABSTRACT:

Ir to store information in the John of magnetic bits on two sides. Faulty areas are located on the discs and analysis by switching to another disc on a sactor basis to ensure computer reliability. The disc, mamony elements rockies involuation from a fidnality of **医空间** Recold which during acqual oceranion one in Flying association with the discs. For week meanty disc. Take is a yoke assently which includes a